

Experience

Anthony and Associates Professional Law Corporation

Jun 2021 - Jun 2023

Front Desk Receptionist

Toronto, ON

- Provided customer service with incoming clients and handled personal information regarding their home purchase and mortgage.
- Attended phone calls from clients, other law firms, and financial institutions and entered mortgage and client information into the database while following up on any outstanding issues.

F1 Electric Waterloo - Suspension Team Member

Sept 2023 - Sept 2024

Student Design Team

Waterloo, ON

- Researched to develop and optimize a cost-saving car gasket material
- Utilized Solidworks to implement material onto existing chassis.

Midnight Sun Solar Race Car Team - Electrical/Dynamics Team Member

Sept 2023 - Sept 2024

Student Design Team

Waterloo, ON

- Designing and constructing PCBs using Altium Designer for various subsections such as battery management, power distribution and solar sense.
- Building a practical, easy-to-debug, and **resilient electrical system**, taking full advantage of both hardware and software capabilities.
- Helped design a jig in Solidworks, and ran FEA tests on parts to simulate various real life situations.

CNE - Screemers

July 2023 - Sept 2023

Booth Coordinator

Toronto, ON

- Managed booth finances on Microsoft Excel and provided hospitality to booth customers.
- Created multiple levels of difficulty and raised profits by creating brand new visual advertisements.

FRC - Scratch for kids

March 2021 - May 2021

Tutor

Toronto, ON

- Created an online video course for kids using PowerPoint to teach kids basic scratch skills.
- In addition, taught basic intro-level Python programming.

Projects

QuakeMaster | Solidworks

Nov 2023

- Created a shake table, jenga game for little kids
- Used Solidworks to design an interlocking brick system designed to enable the creativity of kids.
- Helped to design the cam mechanism used to uplift and bring back the various plates of the shake table back to its original position utilizing gears. Drew various sketches of cam mechanisms in **AutoCAD** to test different displacements of the plates.
- Used **3D-Printing** to create the blocks and the gears used in the shake table.

EV3 Robot - Klaw Machine | C Programming

January 2023

- Created a robot that can automatically detect objects within a vicinity and pick them up.
- Used RobotC to program the robot to automatically detect an object within a 360-degree radius and drive to it.
- Used mathematical calculations to optimize the distance between the object and the crane to pick it up.
- Designed the hinge mechanism of the crane and the claw mechanism to pick up the object using **SolidWorks**.

$\mathbf{Keychain} \mid SolidWorks, AutoCAD$

January 2023

- Used AutoCAD to design keychain components using proper engineering notation for threaded holes, tolerances etc.
- Transferred files into SolidWorks files to do 3D assembly of the object in SolidWorks, while properly maintaining any tolerances, threads etc.

FRC Robotics | Solidworks, Java

Sept 2022

- Used Solidworks, to the claw mechanism and weight stabilizing platforms for the robot.
- Utilized Java to implement independent directives for the robot. In addition, it helped to design the electrical circuitry of the robot.

Functioning Fidget Cube | Solidworks, Technical Drawings, 3D Printing

Dec 2023

- Used Solidworks to create a fidget cube that alleviates stress for the user using various mechanical processes.
- Utilized a 13 Prusa i3 MK3S+ to **3D Print** to test various models.
- Conducted test for various fits and tolerances to optimize the combination between compactibility and playability and create an optimized user experience.

Skills

Languages: Java, C++, HTML/CSS

Tools: 3D printing, AutoCAD, Solidworks, Technical Drawing

Education

University of Waterloo

Sep. 2023 - Apr. 2028

 $Bachelor\ of\ Applied\ Science\ in\ Mechanical\ Engineering$

Waterloo, ON

Relevant Coursework: Digital Computation, Circuits, Intro to Mechanical Engineering